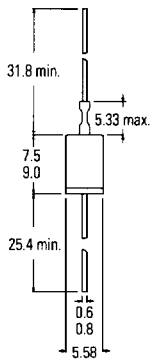
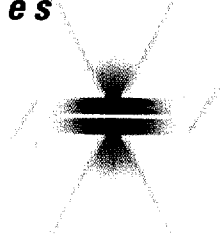


▼ MPT/1N6356 – 1N6372  
▲ Series



All dimensions in mm

**Invisible Protection**

When no problems exist, Crydom TVS Diodes are totally invisible to the circuits they're protecting. But when potentially damaging transients occur, they provide high-speed "clamping" to prevent damage – and then return to their electronically invisible state.

**MPT SERIES (1500 WATT) METAL AXIAL TRANSIENT VOLTAGE SUPPRESSORS**

The MPT series 1500 watt transient suppressors are designed specifically for protection of CMOS, NMOS, BiMOS, and other integrated circuits available today for TTL, DTL, ECL, RTL, and linear functions. This series offers the lowest clamping voltages.

**FEATURES**

- Glass passivated junction
- Stand-off voltage range: 5-45 V
- Excellent clamping voltages
- Low zener impedance
- 100% surge tested
- -65°C to +175°C
- Hermetically sealed
- Uni-directional and bi-directional

**MAXIMUM RATINGS**

- Peak pulse power (PPK): 1500 watts (10 X 1000  $\mu$ s)
- 1 watt steady state
- Response time: 1 X 10<sup>-12</sup> s (theoretical)
- Operating and storage temperature: -55°C to +175°C

PART NUMBER	REVERSE STAND-OFF VOLTAGE Vr (V)	MINIMUM BREAKDOWN VOLTAGE VBR @ 1 mA (V)	MAXIMUM REVERSE LEAKAGE Ir @ Vr ( $\mu$ A)	MAXIMUM CLAMPING VOLTAGE Vc @ IPP1=1A (V)	MAXIMUM CLAMPING VOLTAGE Vc @ IPP2=10A (V)	MAXIMUM PEAK PULSE CURRENT IPP (A)
*1N6356 / MPT-5	5.0	6.0	300.0	7.1	7.5	160.0
1N6357 / MPT-8	8.0	9.4	25.0	11.3	11.5	100.0
1N6358 / MPT-10	10.0	11.7	2.0	13.7	14.1	90.0
1N6359 / MPT-12	12.0	14.1	2.0	16.1	16.5	70.0
1N6360 / MPT-15	15.0	17.6	2.0	20.1	20.6	60.0
1N6361 / MPT-18	18.0	21.2	2.0	24.2	25.2	50.0
1N6362 / MPT-22	22.0	25.9	2.0	29.8	32.0	40.0
1N6363 / MPT-36	36.0	42.4	2.0	50.6	54.3	23.0
1N6364 / MPT-45	45.0	52.9	2.0	63.3	70.0	19.0
<i>Vf max. = 3.5 V at If = 50 A 300 <math>\mu</math>s square wave pulse</i>						
1N6365 / MPT-8C	8.0	9.4	50.0	11.4	11.6	100.0
1N6366 / MPT-10C	10.0	11.7	2.0	14.1	14.5	90.0
1N6367 / MPT-12C	12.0	14.1	2.0	16.7	17.1	70.0
1N6368 / MPT-15C	15.0	17.6	2.0	20.8	21.4	60.0
1N6369 / MPT-18C	18.0	21.2	2.0	24.8	25.5	50.0
1N6370 / MPT-22C	22.0	25.9	2.0	30.8	32.0	40.0
1N6371 / MPT-36C	36.0	42.4	2.0	50.6	54.3	23.0
1N6372 / MPT-45C	45.0	52.9	2.0	63.3	70.0	19.0

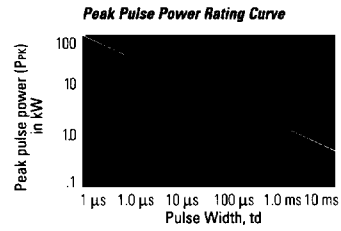
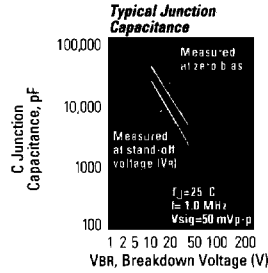
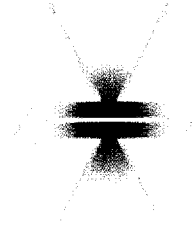
\*MPT-5 is not available in bi-directional.

Note: Suffix "C" denotes bi-directional device. Electrical specifications @ 25°C.

To Order: 1-877-502-5500 Fax: 1-619-715-7280



**MPT/1N6356 – 1N6372 Series**



**Specify Crydom**

...for these industry-leading components and products:

- **Solid State Relays**  
Printed Circuit Board Mount  
Panel Mount  
DIN Rail Mount
- **Power Cubes**
- **I/O Modules**
- **Transient Voltage Suppression Components**  
TVS Diodes  
Thyristor Suppression Devices  
Gas Discharge Tubes (GDT)  
Zeners/Studs  
Hybrid Arrester Devices

**MECHANICAL CHARACTERISTICS**

- Case: Metal hermetically sealed DO-13 package
- Terminals: Axial leads, solderable per MIL-STD-202 Method 208
- Polarity: Cathode indicated by color band
- Weight: 1.5 grams (approx.)

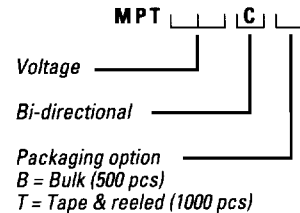
**Ordering Information**

For recommended applications and more information contact:

Sales: 1-877-502-5500  
 Technical support: 1-877-702-7700  
 Corporate Headquarters: 1-619-715-7200  
 Fax: 1-619-715-7280  
 E-mail: sales@crydom.com  
 Website: www.crydom.com

**About Crydom**

Over the years Crydom has become the supplier of choice for advanced, high-quality products like those featured here. It's the result of our teams of design and production engineers – material, production control, and quality assurance experts, and more – working seamlessly together to create, produce, and deliver superior components and products that satisfy the most demanding environmental and performance requirements. We focus on timely delivery and competitive pricing aimed at meeting your needs and helping you succeed in today's fast-paced, fast-changing global markets.



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